PCT/NL2004/000284

| A. CLASS | SIFICATION OF SUBJECT MATTER | 101711220047 000284 | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|
| IPC 7 | CO7D309/00 A61K31/40 A61P3/ | /00 A61P3/06 | | | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | | | | |
| B. FIELDS | B. FIELDS SEARCHED | | | | | | | | |
| Minimum d | Minimum documentation searched (classification system followed by desplication system) | | | | | | | | |
| 1,0, | TIO / CO/D AOIK | | | | | | | | |
| Documenta | ation searched other than minimum documentation to the extent tha | at such documents are included in the fields searched | | | | | | | |
| Electronic o | data base consulted during the International search (name of data | base and where practical search tame used | | | | | | | |
| EPO-In | ternal, WPI Data, PAJ, CHEM ABS Da | ita | | | | | | | |
| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | | | | | | | | |
| Category ° | Citation of document, with indication, where appropriate, of the | relevant passages | | | | | | | |
| | | Relevant to claim No. | | | | | | | |
| X | WO 89/07598 A (WARNER LAMBERT CO 24 August 1989 (1989-08-24) abstract claims 34,40 | 0) 17 | | | | | | | |
| A | | | | | | | | | |
| Α | WO 02/06266 A (MINK DANIEL ; DSM | MV (All). | | | | | | | |
| · | KOOISTRA JACOB HERMANUS MATTHE (24 January 2002 (2002-01-24) abstract page 1, line 1 - line 25 claims 1-15 | NV (NL); (NL); MUL) | | | | | | | |
| | | -/ | | | | | | | |
| [V] 5-m | | | | | | | | | |
| Further documents are listed in the continuation of box C. Patent family members are listed in annex. | | | | | | | | | |
| *A' document defining the general state of the art which is not considered to be of particular relevance "E' earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention filing date "L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O' document referring to an oral disclosure, use, exhibition or other means "P' document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. | | | | | | | | | |
| Date of the actual completion of the International search Date of mailing of the international search report | | | | | | | | | |
| 4 August 2004 18/08/2004 | | | | | | | | | |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Authorized officer | | | | | | | | | |
| | Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Taylor, G.M. | | | | | | | |

PCT/NL2004/000284

| C.(Continu | nation) DOCUMENTS CONSIDERED TO BE RELEVANT | 1 C 17 NE 20047 000284 |
|------------|---|------------------------|
| Category ° | | Relevant to claim No. |
| A | BAUMANN K L ET AL: "THE CONVERGENT SYNTHESIS OF CI-981, AN OPTICALLY ACTIVE, HIGHLY POTENT, TISSUE SELECTIVE INHIBITOR OF HMG-COA REDUCTASE" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 33, no. 17, 21 April 1992 (1992-04-21), pages 2283-2284, XP000608147 ISSN: 0040-4039 * Compound 6 * the whole document | 1-18 |
| | WOO P W K ET AL: "ATORVASTATIN, AN HMG-COA REDUCTASE INHIBITOR AND EFFECTIVE LIPID-REGULATING AGENT. PART III. SYNTHESES OF 2H5-,13C8 AND 13C7,15NATORVASTATIN AND THEIR APPLICATION IN METABOLIC AND PHARMACOKINETIC STUDIES" JOURNAL OF LABELLED COMPOUNDS AND RADIOPHARMACEUTICALS, SUSSEX, GB, vol. 42, no. 2, 1999, pages 135-145, XP001027171 ISSN: 0362-4803 * Scheme 2, Series c * * Compounds 18 and 7c * the whole document | 1-18 |
| | BROWER P L ET AL: "THE SYNTHESIS OF (4R-CIS)-1,1-DIMETHYLETHYL 6-CYANOMETHYL-2,2-DIMETHY L-1,3-DIOXANE-4-ACETATE, A KEY INTERMEDIATE FOR THE PREPARATION OF CI-981, A HIGHLY POTENT, TISSUE SELECTIVE INHIBITOR OF HMG-COA REDUCTASE" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 33, no. 17, 21 April 1992 (1992-04-21), pages 2279-2282, XP000608146 ISSN: 0040-4039 * Compound 6 * the whole document | 1-18 |

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

page 2 of 2

Information on patent family members

PCT/NL2004/000284

| Cited in search report Cable Pattent itamily member(s) Cable | D-1: | | | | | /NL2004/000284 |
|--|-------------------------------------|------------|------------|--------|-------------------------|--------------------------|
| AT 109777 T 15-08-1994 AU 634689 B2 25-02-1993 AU 1601792 A 09-07-1992 AU 635171 B2 11-03-1993 AU 1601892 A 09-07-1992 AU 621874 B2 26-03-1992 AU 621874 B2 26-03-1992 AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DE 70330172 A2 30-08-1989 EP 0348552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 949558 B 15-08-1989 FI 949550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 9711578 B1 12-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-05-1998 KR 9711579 B1 12-05-1998 NO 943057 A ,B, 27-09-1990 NO 238845 A 29-01-1992 NZ 238845 A 29-01-1992 | | | date | | Patent family member(s) | |
| AT 109777 T 15-08-1994 AU 634689 B2 25-02-1993 AU 1601792 A 09-07-1992 AU 635171 B2 11-03-1993 AU 1601892 A 09-07-1992 AU 621874 B2 26-03-1992 AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0488552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 94958 B 15-08-1995 HK 1000732 A1 24-04-1998 HK 1000732 A1 24-04-1998 HK 1000732 A1 24-04-1998 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 9711462 B1 11-07-1997 KR 9711462 B1 11-07-1997 KR 9711462 B1 11-07-1997 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 963245 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 14-09-1993 US 5245047 A 14-09-1993 US 52460126 A 18-01-1994 US 52460126 A 18-01-1994 US 5124882 A 23-06-1992 | WO 8907598 | Α | 24-08-1989 | | 5003080 A | 26-03-1991 |
| AU 634689 B2 25-02-1993 AU 1601792 A 09-07-1992 AU 635171 B2 11-03-1993 AU 1601892 A 09-07-1992 AU 621874 B2 26-03-1992 AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 20583856 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 2843627 B2 06-01-1999 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 123813 B1 27-11-1997 KR 137884 B1 01-05-1998 KR 9711578 B1 12-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 951075 A , B, 27-09-1990 NO 95245 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 29-01-1992 NZ 238848 A 29-01-1992 | | | | | 109777 т | |
| AU 1601792 A 09-07-1992 AU 635171 B2 11-03-1993 AU 1601892 A 09-07-1992 AU 621874 B2 26-03-1992 AU 6321874 B2 26-03-1992 AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1991 ES 2058356 T3 01-11-1991 ES 2058356 T3 01-11-1994 HK 1000732 A1 24-04-1998 FI 941550 A , B, 05-04-1994 HK 1000732 A1 24-04-1998 JP 3009139 B2 14-02-2000 JP 10195071 A 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711878 B1 11-07-1997 KR 137884 B1 101-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 951075 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 95245 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 | | | | | 634689 B2 | |
| AU 1601892 A 09-07-1992 AU 1601892 A 09-07-1992 AU 3349689 A 06-09-1989 CCA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DE 68917336 T2 01-12-1994 DE 70330172 A2 30-08-1989 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 2843627 B2 06-01-1999 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 123813 B1 27-11-1997 KR 9711578 B1 11-07-1997 KR 9711579 B1 11-07-1997 KR 9711579 B1 11-07-1997 NO 903667 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 963245 A , 27-09-1990 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 | | | | | 1601792 A | 09-07-1992 |
| AU 1601829 A 09-07-1992 AU 621874 B2 26-03-1992 AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-06-1995 JP 2843627 B2 06-01-1999 JP 2843627 B2 06-01-1999 KR 9711578 B1 12-07-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 11-07-1997 KR 137884 B1 11-07-1997 KR 137884 B1 11-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 963245 A B, 27- | | | | | 635171 B2 | 11-03-1993 |
| AU 621874 B2 26-03-1992 AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 101-11-1994 FI 94958 B 15-08-1995 FI 941550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 2843627 B2 06-01-1999 KR 9711578 B1 12-07-1997 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 123813 B1 27-11-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 11-07-1997 KR 9711462 B1 11-07-1997 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 29-01-1992 NZ 238844 A 29-01-1992 | | | | | 1601892 A | 09-07-1992 |
| AU 3349689 A 06-09-1989 CA 1330441 C 28-06-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 10195071 A 28-06-1995 JP 2843627 B2 06-01-1999 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 941725 A B, 27-09-1990 NO 941725 A B, 27-09-1990 NO 943057 A B, 27-09-1990 NO 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 621874 B2 | 26-03-1992 |
| DE 68917336 D1 15-09-1994 DE 68917336 D1 15-09-1994 DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A , B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 9711578 B1 12-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 27-09-1990 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 3349689 A | 06-09-1989 |
| DE 68917336 T2 01-12-1994 DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 9711462 B1 11-07-1997 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 29-01-1992 NZ 238848 A 29-01-1992 NZ 238848 A 29-01-1992 NZ 238848 A 29-01-1992 NZ 238848 A 29-01-1992 | | | | | 1330441 C | 28-06-1994 |
| DK 197090 A 04-10-1990 EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 123813 B1 27-11-1997 KR 137884 B1 01-05-1998 KR 9711462 B1 11-07-1997 KR 9711462 B1 11-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A B27-09-1990 NO 963245 | | | | | 68917336 D1 | 15-09-1994 |
| EP 0330172 A2 30-08-1989 EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A , B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 971162 B1 11-07-1997 KR 971162 B1 11-07-1997 KR 9711579 B1 12-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 941725 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 951075 A , B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1999 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238848 A 29-01-1992 | | | | | 6891/336 T2 | 01-12-1994 |
| EP 0448552 A1 02-10-1991 ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 941550 A , B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 9711462 B1 11-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 951075 A , B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 29-01-1992 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 29-01-1992 NZ 238848 A 29-01-1999 NS 5245047 A 14-09-1993 US 52450126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 512482 A 23-06-1992 | | | | | 19/090 A | |
| ES 2058356 T3 01-11-1994 FI 94958 B 15-08-1995 FI 94958 B 15-08-1995 FI 941550 A , B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 9711579 B1 12-07-1997 KR 9711579 B1 12-07-1997 NO 903667 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 943057 A , B, 27-09-1990 NO 951075 A , B, 27-09-1990 NO 951075 A , B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A B 04-10-1989 US 5245047 A 14-09-1993 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | , | | | 03301/2 A2 | 30-08-1989 |
| FI 94958 B 15-08-1995 FI 941550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 14-09-1993 US 5245047 A 14-09-1993 | | | | | 0448552 A1 | . 02-10-1991 |
| FI 941550 A ,B, 05-04-1994 HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 9711462 B1 11-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711578 A ,B, 27-09-1990 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 27-09-1990 NO 28245 A 27-09-1990 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 14-09-1993 US 5245047 A 14-09-1993 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 2058356 13 | |
| HK 1000732 A1 24-04-1998 IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 14-09-1993 US 5245047 A 14-09-1993 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 94958 B | |
| IE 63994 B1 28-06-1995 JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 9711579 B1 12-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 94105U A , | |
| JP 3009139 B2 14-02-2000 JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 90367 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 238843 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 14-09-1993 US 5245047 A 14-09-1993 US 5245047 A 14-09-1993 US 5245047 A 14-09-1993 US 5124482 A 23-06-1992 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | E3004 B1 | 24-04-1998 |
| JP 10195071 A 28-07-1998 JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 38 04-10-1989 US 5245047 A 14-09-1993 US 5245047 A 14-09-1993 US 5245048 A 24-08-1989 US 5124482 A 23-06-1992 US 514482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 3000130 | |
| JP 2843627 B2 06-01-1999 JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 10105139 BZ | |
| JP 3502798 T 27-06-1991 KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A 29-01-1992 NZ 238848 A 29-01-1992 | | | | | 2843627 R2 | |
| KR 9711578 B1 12-07-1997 KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 3502798 T | 00-01-1999 2706 1001 |
| KR 123813 B1 27-11-1997 KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 9711578 B1 | 12-07-1007 |
| KR 9711462 B1 11-07-1997 KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A B 04-10-1989 US 5245047 A B 04-10-1989 US 5245047 A B 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | KR | 123813 B1 | |
| KR 137884 B1 01-05-1998 KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 | | | | | 9711462 B1 | |
| KR 9711579 B1 12-07-1997 NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238845 A 29-01-1992 NZ 238846 A 29-01-1992 NZ 238847 A B 04-10-1989 US 5245047 A 14-09-1993 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 137884 B1 | 01-05-1998 |
| NO 903667 A ,B, 27-09-1990 NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 9711579 B1 | 12-07-1997 |
| NO 941725 A ,B, 27-09-1990 NO 943057 A ,B, 27-09-1990 NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 903667 A . | B, 27-09-1990 |
| NO 951075 A ,B, 27-09-1990 NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 941725 A . | |
| NO 963245 A 27-09-1990 NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 943057 A , | B, 27-09-1990 |
| NZ 228050 A 29-01-1992 NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 W0 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 951075 A , | |
| NZ 238843 A 29-01-1992 NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 963245 A | |
| NZ 238844 A 29-01-1992 NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 W0 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | | . 29-01-1992 |
| NZ 238845 A 29-01-1992 PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 W0 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 238843 A | 29-01-1992 |
| PT 89774 A ,B 04-10-1989 US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 W0 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 230044 A | 29-01-1992 |
| US 5245047 A 14-09-1993 US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | | 29-01-1992 |
| US 5280126 A 18-01-1994 WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | | |
| WO 8907598 A2 24-08-1989 US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | | | | | 5280126 A | 14-09-1993 |
| US 5124482 A 23-06-1992 US 5149837 A 22-09-1992 | • | | | | 8907598 A2 | 10-U1-1994 24-09-1000 |
| US 5149837 A 22-09-1992 | | | | US | 5124482 A | 23-06-1989 23-06-1989 |
| | | | | | 5149837 A | 22-09-1992 |
| | • | | | US | 5216174 A | |
| ZA 8900989 A 31-10-1990 | | | • | | 8900989 A | 31-10-1990 |
| US 5097045 A 17-03-1992 | | | | US | 5097045 A | |
| WO 0206266 A 24-01-2002 NL 1015744 C2 22-01-2002 | WO 0206266 | Α | 24-01-2002 | | 1015744 C2 | 22-01-2002 |
| AU /583001 A 30-01-2002 | • | | | | 7583001 A | 30-01-2002 |
| BR 0112535 A 01-07-2003 | | | | | | 01-07-2003 |
| 2002 | | | • | | | 24-01-2002 |
| 17-09-2003 | | | | | 20030163 V3 | 17-09-2003 |
| ED 14-05-2003 | | | | | 1317/// A1 | 14-05-2003 |
| 11-00-2003 | | | | | 0303166 A2 | 11-06-2003 |
| 29-12-2003 | | | | | | 49-12-2003 |
| WO 0206266 A1 24-01-2002 | | | | | | 24-01-2000 |
| NO 20030025 A 03-01-2003 | • | | • | | 20030025 A | 03-01-2002 |
| CT/ISA/210 (patent family annex) (January 2004) | /ISA/210 (patent family annex) (Jan | uary 2004) | | | | 03-01-2003 |

information on patent family members

PCT/NL2004/000284

| Patent document cited in search report | Publication date | Patent fam member(s | | Publication date | | |
|---|---------------------|--------------------------------------|--|--|--|--|
| WO 0206266 A | | SK 3520 US 20031584 ZA 2003004 | | 02-05-2003 21-08-2003 26-01-2004 | | |
| | | | | | | |